



## PATENT ABSTRACTS OF JAPAN

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## (54) REFLECTION FACTOR VARIABLE MIRROR DEVICE

## (57) Abstract:

**PURPOSE:** To keep a desired reflection factor constant, by providing a transparent electrode on one side of one of 2 opposed transparent glass plates, providing an electric conductor reflection film on one side of the other plate, placing an electric color forming material whose transmittivity is varied by voltage, between them, and providing a controlling means.

**CONSTITUTION:** A reflection mirror 1 is constituted by vapor-depositing an electric conductor reflection film 13 and a transparent electrode 14 on the opposed surfaces of transparent glass plates 11, 12, respectively, filling an electric color former (for instance, an electrochromic agent), and sealing with a frame 16, and is provided with a light emitting element 3 and a photodetector 4. A light beam emitted from the light emitting element 3 which has been lighted by a battery B is made incident to the photodetector, an output is inputted to a comparator 7, is compared with set voltage  $V_0$  selected by resistances  $R_3WR_5$ , and when input

voltage exceeds  $V_0$ , a transistor Tr is operated, voltage is applied to the electrodes 13, 14, the electric color former 15 forms a color, the transmittivity drops, and a desired reflection factor is maintained.

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